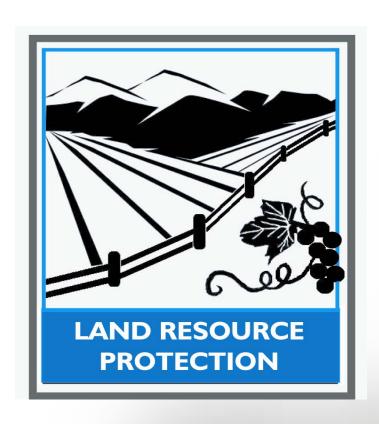
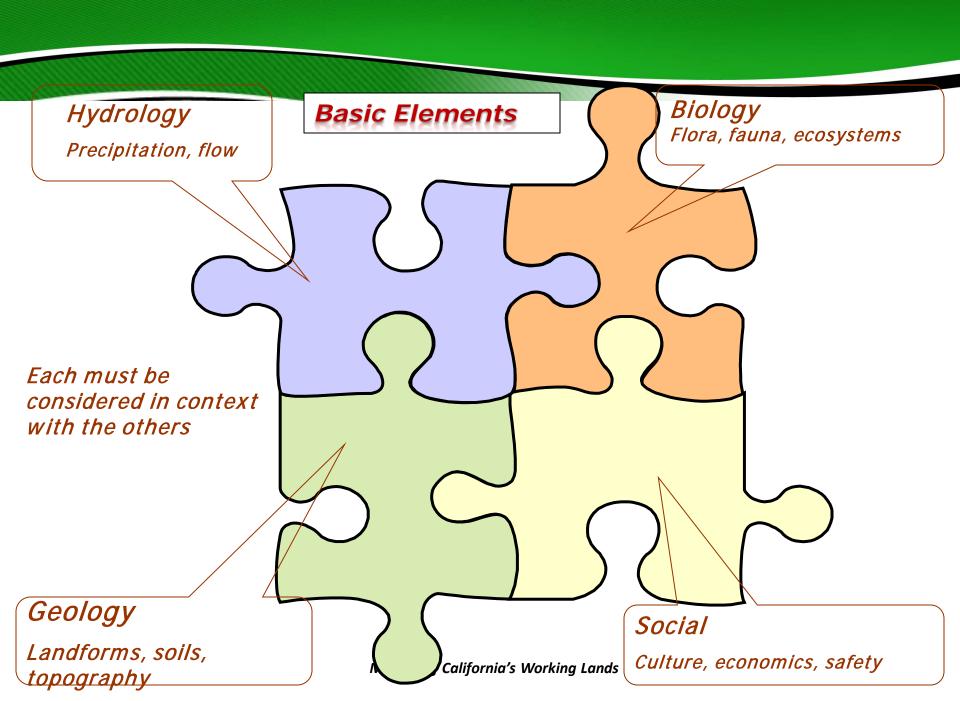
Department of Conservation Division of Land Resource Protection



FROM INTEGRATED WATER MANAGEMENT TO INTEGRATED NATURAL RESOURCE MANAGEMENT

TERMINOLOGY

- The Watershed= Place = interaction between components of the ecosystem
- Ecosystem Services= Management Goals and Objectives
- Management Approach
 - Recognizes importance of local and regional management
 - Organized based on physical, chemical, and biological boundaries and the human patterns within them



- ✓ purification of air and water
- mitigation of floods and droughts
- detoxification and decomposition of wastes
- ✓ soil and soil fertility generation and renewal
- ✓ pollination of crops and natural vegetation
- ✓ control of agricultural pests
- ✓ dispersal of seeds and cycling of nutrients



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- ✓ maintenance of biodiversity
- ✓ protection from ultraviolet rays
- ✓ stabilization of climate
- ✓ moderation of temperature extremes
- ✓ moderation of the force of floods, winds and waves
- ✓ support of diverse human cultures
- ✓ beauty and spiritual sustenance



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Many ecosystem services are beyond price providing a source of cultural identity, of
kinship with life, of learning, of evolutionary
processes, and with the primary components
of soil, air, water, and biodiversity make up
complex systems which as yet, have no
engineering substitutes.



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RESILIENCE AND CHANGE

 Systems need to be both robust and resilient to provide long term support services for human and other populations

Change is inevitable (and necessary)

 Reactions to change are usually more important and influential than the change itself

Functional Continuity

- System complexity allows a greater range of adaptation options
- Robust range of options provides greater resilience in the face of change
- Resilience provides the opportunity for more effective adaptation
- Effective adaptation retains complexity and sustains functions

Integrated Natural Resource Management

- Public Involvement
- Inclusiveness
- Multi- objective approach
- Transparency
- Goal- oriented
- Scientifically valid
- Performance based
- Integrate relevant federal, state, tribal, regional and local goals

Integrated Natural Resource Management

- Integration of management effort will become more commonly used
 - As change occurs
 - In increments over time
 - As traditional methods fail to achieve anticipated results

Regional Planning & Management



Used with permission- from unpublished manuscript- Jordan Henk PhD, Redlands University Managing California's Working Lands

Learn where your water comes from...



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